

E 6095



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Reg. No.....

Name.....

B.A. DEGREE (C.B.C.S.S.) EXAMINATION, SEPTEMBER 2024

Sixth Semester

B.A. Economics (Model I)

Core Course—QUANTITATIVE ECONOMICS

(Prior to 2013 Admissions)

Time : Three Hours

Maximum Weight : 25

Part A

Answer all questions.

*Each bunch of **four** questions carries a weight of 1.*

Choose the correct answer for the following questions.

- I. 1 The measurement of central tendency refers to :
- (a) Mean. (b) Median.
(c) Mode. (d) All.
- 2 If Arithmetic mean is 50 and n value is 30, then value of $\sum x$ is :
- (a) 150. (b) 1500.
(c) 100. (d) 1000.
- 3 In a normal distribution :
- (a) Mean = Mode = Median. (b) Mean
(c) Mode. (d) None.
- 4 If $\sum x = 500$ and $n = 10$ then arithmetic mean is :
- (a) 40. (b) 50.
(c) 60. (d) 70.

Turn over





- II. 5 The collection of data from Government records represent :
- (a) Primary data. (b) Secondary data.
(c) Both. (d) None.
- 6 If the data collected at interval of 10 years is called :
- (a) Census data. (b) Pooled data.
(c) Cross section data. (d) None.
- 7 "Lorenz curve" measures the concept of :
- (a) Inequality of income and wealth.
(b) Equity of wealth.
(c) Both.
(d) None.
- 8 Which is not a measure of dispersion :
- (a) Mean Deviation. (b) Range.
(c) Median. (d) Standard deviation.
- III. 9 The square root of standard deviation is :
- (a) Range. (b) Variance.
(c) Mean Deviation. (d) Median.
- 10 The first moment about mean (μ) is always :
- (a) One. (b) Zero.
(c) + 3. (d) - 3.
- 11 The concept of range is most closely related to :
- (a) Mean. (b) Median.
(c) Mode. (d) None.
- 12 If two variable are correlated at 0.94 we call it :
- (a) Highly correlated. (b) Low correlation.
(c) No correlation. (d) None.





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- IV. 13 When the co-efficient of skewness is near to zero, the distribution is :
- (a) J-shaped. (b) U--shaped.
(c) L-shaped. (d) Symmetrical.
- 14 The value of correlation is always :
- (a) 0 to 1. (b) More than 1.
(c) Less than 1. (d) None.
- 15 The square root of standard deviation is called :
- (a) Variance. (b) Range.
(c) Mode. (d) Median.
- 16 If the data collected at a point of time is called :
- (a) Time series data. (b) Pool data.
(c) Cross section data. (d) None.

(4 × 1 = 4)

Part B (Short Answer Questions)

*Answer any five questions not exceeding 50 words each.
Each question carries a weight of 1.*

- 17 Define Mode.
18 Define Histogram.
19 Median.
20 Normal distribution.
21 Kurtosis.
22 Correlation Co-efficient.
23 Binomial distribution.
24 Skewness.

(5 × 1 = 5)

Turn over





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Part C (Short Essays)

*Answer any **four** questions not exceeding 50 words each.
Each question carries a weight of 2.*

25 Explain the merits and demerits of median.

26 Compute arithmetic mean from the following data :

Marks	:	50	60	70	80	90
No. of students	:	110	120	130	140	150

27 Calculate mode from the following data :

Profits	:	0–10	10–20	20–30	30–40
No. units	:	10	15	18	23

28 Difference between correlation and regression.

29 Briefly explain the merits and demerits of using mean deviation (M.D.)

30 Explain the concept of weighted arithmetic mean.

(4 × 2 = 8)

Part D (Long Essays)

*Answer any **two** questions not exceeding 450 words each.
Each question carries a weight of 4.*

31 State and explain various methods of dispersion with examples.

32 Explain the rules of differentiation of first order derivatives with examples.

33 What is Probability ? Briefly explain multiplication theorem with examples.

(2 × 4 = 8)

